

**IN THE ABSTRACT**

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A method for the secure application of a cryptographic algorithm of the RSA type in an electronic component obtains the value of a public exponent  $e$  from a given set of probable values, without a priori knowledge of that value. Having determined the value for the public exponent  $e$ , the application of countermeasures using the value of  $e$ , to block error attacks and side channel attacks, particularly of the DPA and SPA type, are carried out on the application of a private operation of the cryptographic algorithm.